

## ABSTRACT

An aldehyde-containing oily solution and an aqueous hydrogen peroxide solution are reacted in the presence of a catalyst comprising a polymer compound having a sulfonic acid group in a side chain thereof in a heterogeneous solution system. According to such a reaction process, carboxylic acid can be efficiently produced under mild conditions having very little influence and toxicity on the environment and a human body, with simple operations, without requiring the operation for removing a solvent after the completion of the reaction.